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**Inventor:**

**Applicant:**

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- European:

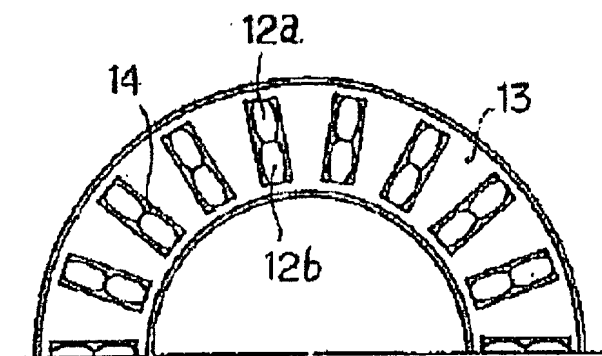
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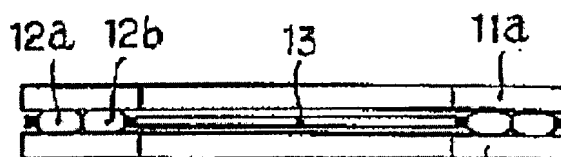
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**Abstract of JP2003156050**

**PROBLEM TO BE SOLVED:** To provide a thrust needle bearing which is capable of reducing a differential slip, and suppressing the increase in the rolling contact bearing pressure as much as possible, small in wear of a race and excellent in surface damage-resistant characteristic. **SOLUTION:** This thrust needle bearing comprises a roller with crowning, and a race having  $\geq 10,000/\text{mm}^2$  to  $< 40,000/\text{mm}^2$  carbide particles of the grain size of  $\geq 0.6 \mu\text{m}$  at least to the depth of 0.1 mm of a surface layer.



(a)



(b)

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